SPYWOLF

Security Audit Report

Completed on

October 13, 2023

OVERVIEW

This audit has been prepared for **Dragon Lord** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

> *The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*
>
> - SPYWOLF Team -

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Dragon Lord

PROJECT DESCRIPTION

“DRAGON LORD is a groundbreaking gaming project built on the Binance Smart Chain (BSC), offering a fully decentralized experience to revolutionize the world of gaming.
In the realm of Dragon Lord, the mighty Tyrant Dragon is celebrated as one of the most formidable creatures among the legendary Earth Dragons. As players embark on epic adventures within this virtual realm, the project endeavors to establish itself as a dominant force, symbolizing gaming excellence, thrill, and progression within the decentralized gaming ecosystem.”

Release Date: Presale starts in November, 2023

Category: Meme token

CONTRACT INFO

Token Name
Dragon Lord

Symbol
$DRL

Contract Address
0xbC517f1c4b40Ea790af108F38A6D31DF6729478D

Network
Binance Smart Chain

Language
Solidity

Deployment Date
Nov 13, 2023

Contract Type
Token with taxes

Total Supply
100,000,000,000

Status
Not launched

TAXES

Buy Tax
9%

Sell Tax
9%

*Taxes can be changed for future

Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

TOKEN TRANSFERS STATS

Transfer Count	3
Uniq Senders	2
Uniq Receivers	3
Total Amount	200000003138.65015 $DRL
Median Transfer Amount	97021311517.42474 $DRL
Average Transfer Amount	66666667712.88338 $DRL
First transfer date	2023-11-13
Last transfer date	2023-11-13
Days token transferred	1

SMART CONTRACT STATS

Calls Count	10
External calls	6
Internal calls	4
Transactions count	7
Uniq Callers	2
Days contract called	1
Last transaction time	2023-11-13 09:58:02 UTC
Created	2023-11-13 09:24:41 UTC
Create TX	0xd615d4f0e7ba1b7d20906accda75fe9a5388eae9b55ec9bf962f385e61371fdc
Creator	0x45e76eaea092996e25f192372973a6118497d207

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠ High Risk

TradingOpen is currently false, allowing vetted addresses to potentially sell their presale tokens before opening trade for the investors.

Note: This only applies if launching on a launchpad platform like Pinksale.

```
bool public tradingActive = false;
function enableTrading() external onlyOwner {
    require(!tradingActive, "Cannot re-enable trading");
    tradingActive = true;
    swapEnabled = true;
    timeStart = block.timestamp;
    //tradingActiveBlock = block.number;
}
```

- Recommendation:
  - Once presale is finished and trading is not enabled, investors cannot sell their token holdings on token launch. Trading should be enabled before presale finish and token launch on DEX.

Informational

Owner can set buy and sell fees up to 10%.
Combined buy+sell = 20%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make. Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function updateBuyFees(uint256 _MarketingFee,
uint256 _rewardsFee, uint256 _liquidityFee) external onlyOwner {
    MarketingBuyFee = _MarketingFee;
    rewardsBuyFee = _rewardsFee;
    liquidityBuyFee = _liquidityFee;
    totalBuyFees = MarketingBuyFee + rewardsBuyFee + liquidityBuyFee;
    require(totalBuyFees <= 10, "Must keep fees at 10% or less");
}

function updateSellFees(uint256 _MarketingFee,
uint256 _rewardsFee, uint256 _liquidityFee) external onlyOwner {
    MarketingSellFee = _MarketingFee;
    rewardsSellFee = _rewardsFee;
    liquiditySellFee = _liquidityFee;
    totalSellFees = MarketingSellFee + rewardsSellFee + liquiditySellFee;
    require(totalBuyFees <= 10, "Must keep fees at 10% or less");
}
```

Informational

Owner can exclude address from fees.
When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}

function excludeMultipleAccountsFromFees(address[] calldata accounts,
 bool excluded) external onlyOwner {
    for(uint256 i = 0; i < accounts.length; i++) {
        _isExcludedFromFees[accounts[i]] = excluded;
    }

    emit ExcludeMultipleAccountsFromFees(accounts, excluded);
}
```

Owner can withdraw BNB from the contract.
When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function withdrawStuckEth() external onlyOwner {
    (bool success,) = address(msg.sender).call{value: address(this).balance}("");
    require(success, "failed to withdraw");
}
```

Informational

During the first 9 seconds after trading is enabled, there will be 80% buy/sell tax applied to every transaction.
Taxes will normalize once 9 seconds elapse from the trade enable.

```
uint256 private antiBotTaxRate = 80;

function enableTrading() external onlyOwner {
    require(!tradingActive, "Cannot re-enable trading");
    tradingActive = true;
    swapEnabled = true;
    timeStart = block.timestamp;
    //tradingActiveBlock = block.number;
}

function _transfer(
    address from,
    address to,
    uint256 amount
) internal override {
.................
    uint256 totalTaxFee = automatedMarketMakerPairs[to]
    ? totalSellFees
    : automatedMarketMakerPairs[from]
    ? totalBuyFees
    : 0;
    if (block.timestamp - timeStart < antiBotBlockTimes) {
        totalTaxFee = antiBotTaxRate;
    }
.................
}
```

RECOMMENDATIONS FOR

GOOD PRACTICES

1. Consider fundamental tradeoffs
2. Be attentive to blockchain properties
3. Ensure careful rollouts
4. Keep contracts simple
5. Stay up to date and track development

Dragon Lord

GOOD PRACTICES FOUND

- ✔ The owner cannot mint new tokens after deployment
- ✔ The owner cannot stop or pause the contract
- ✔ The owner cannot set a transaction limit
- ✔ The smart contract utilizes "SafeMath" to prevent overflows

The following tokenomics are based on the project's whitepaper and/or website:

- 100% - Fair Launch

TOKENOMICS

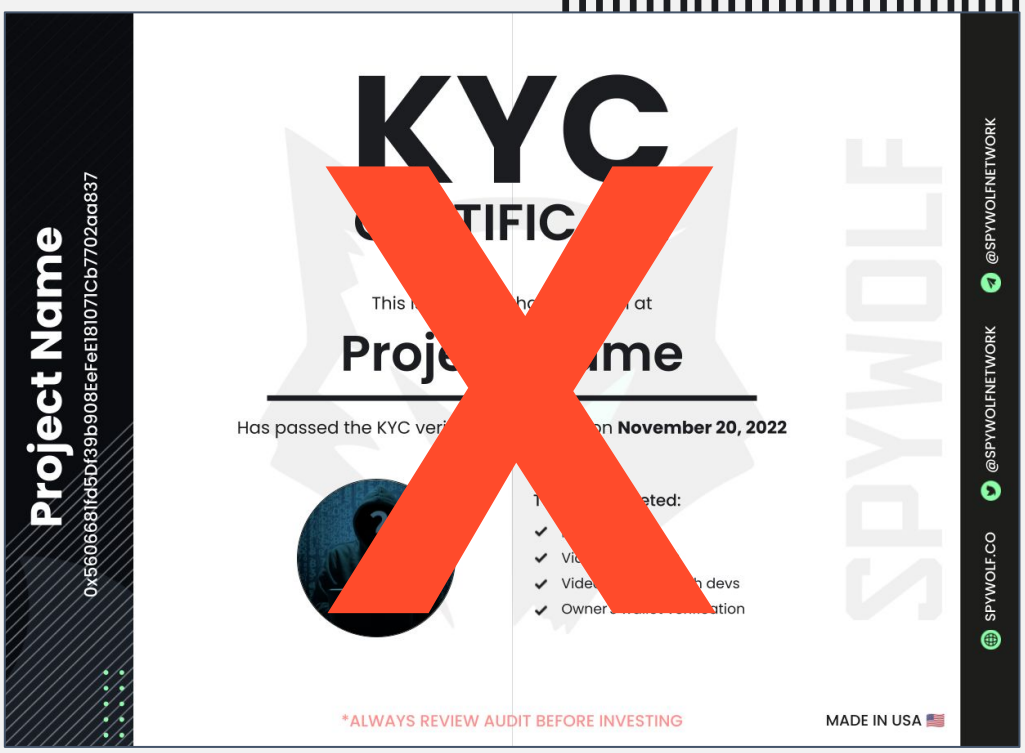
THE TEAM

⚠️ The team is annonymous

KYC INFORMATION

No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.



WEBSITE

Website URL
https://dragonlord.xyz/

Domain Registry
https://www.hostinger.com/

Domain Expiration
2024-11-12

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

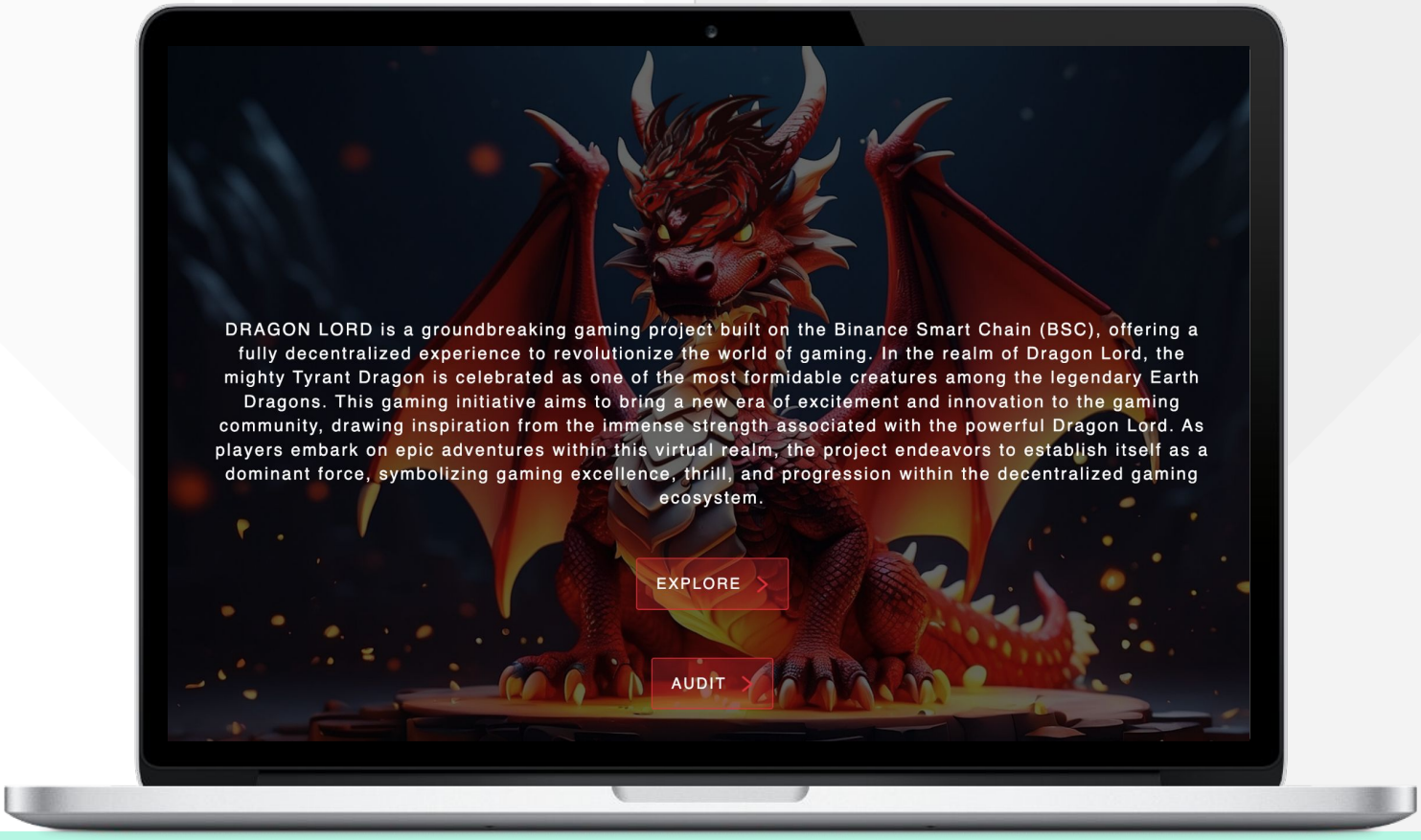
Design
Single page design with appropriate color scheme and graphics.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper
No

Roadmap
Yes, goals set without time frames.

Mobile-friendly?
Yes



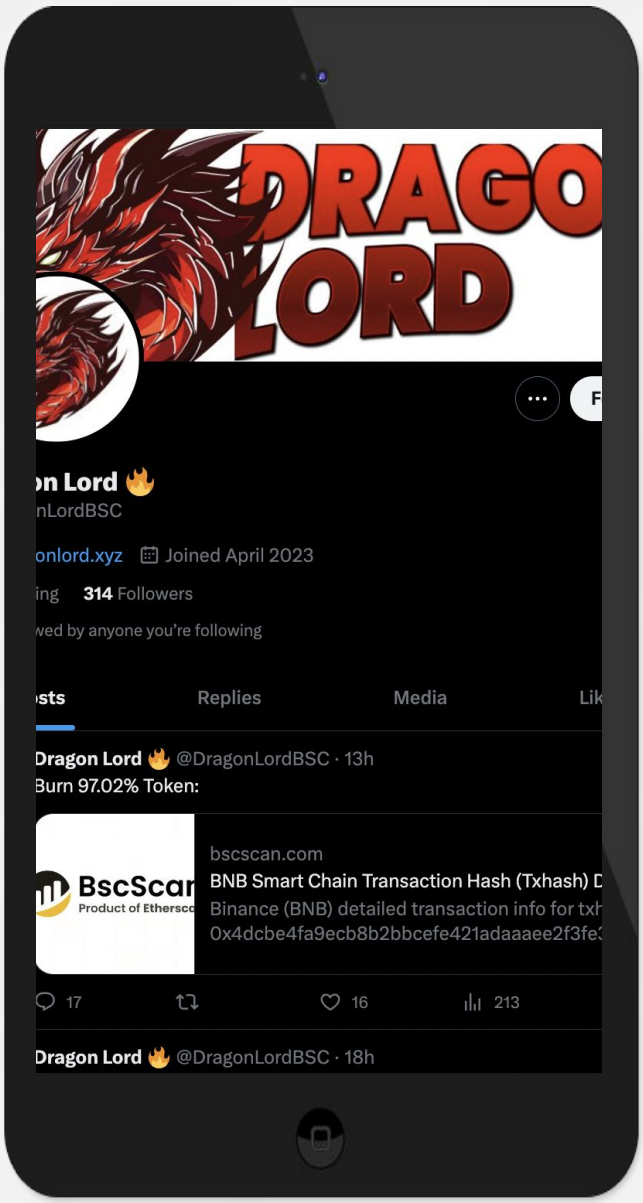
dragonlord.xyz

SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS

Project's social media pages are active



Twitter

@dragonlordbsc

- 297 followers
- 4 posts total
- Active

Discord

- Not available

Telegram

@Dragonlordbnb

- 2 531 members
- Active members
- Active mods

Medium

- Not available

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
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No applications were reviewed for security. No product code has been reviewed.